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E Shragowitz, H Youssef, LC Bening - IEEE Computer Society Conference on System Design: Concepts, 1988 - ieeexplore.ieee.org
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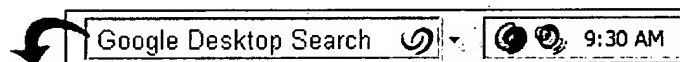
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4085081, C9203-1210B-015; 920205.

TitleHierarchical **Bayesian** approach to reliability estimation under competing risk.**Author(s)**[Badarinathi-R](#); [Tiwari-R-C](#).**Author affiliation**

Dept of Production & Decision Sci, North Carolina Univ, Wilmington, NC, USA.

Source

Microelectronics-and-Reliability (UK), vol.32, no.1-2, p.249-58, Jan.-Feb. 1992.

CODEN

MCRLAS.

ISSN

ISSN: 0026-2714, CCCC: 0026-2714/92/ (\$5.00+.00).

Publication year

1992.

Language

EN.

Publication type

J Journal Paper.

Treatment codes

T Theoretical or Mathematical.

Abstract

In this paper the authors study the exponential failure models under competing risks. Here n-items are considered each with p-components. Each item is put to test until some preassigned time. An item fails if any one of its p-components fail. The component life spans are considered independent and exponentially distributed. The hierarchical **Bayesian** estimates for the parameter estimation are carried out by using independent **Gamma** distributions as first stage priors for the parameters of the exponential **distribution** and then using uniform and improper hyper-priors for scale parameters of the **Gamma distribution**. A **Monte Carlo simulation** is performed to compare these estimates with corresponding maximum likelihood estimates. The study indicates that the hierarchical estimates are superior to maximum likelihood estimates in the sense of their root mean squared errors. (4 refs).

Descriptors[Bayes-methods](#); [failure-analysis](#); [Monte-Carlo-methods](#); [parameter-estimation](#); [reliability-theory](#).

Keywords

reliability estimation; competing risk; exponential failure models; hierarchical **Bayesian** estimates; parameter estimation; independent **Gamma** distributions; exponential **distribution**; **Monte Carlo simulation**; root mean squared errors.

Classification codes

C1210B (Reliability theory).
C1140Z (Other and miscellaneous).
C1220 (**Simulation**, modelling and identification).
C1140G (**Monte Carlo** methods).

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2739991, B86057748, C86047750; 860000.

Title

Timing-driven layout of cell-based ICs.

Author(s)[Teig-S](#); [Smith-R-L](#); [Seaton-J](#).**Author affiliation**

Tangent Syst Corp, Santa Clara, CA, USA.

Source

VLSI-Systems-Design (USA), vol.7, no.5, p.63-73, May 1986.

Translation in: A04.

CODEN

VSDEEG.

ISSN

ISSN: 0279-2834.

Publication year

1986.

Language

EN.

Publication type

J Journal Paper.

Treatment codes

P Practical.

Abstract

Timing-driven layout offers a solution to the problem of producing cell-based ICs that satisfy aggressive performance objectives. Timing-driven layout of semicustom ICs incorporates circuit timing requirements as basic criteria for layout optimization. The timing-driven layout process consists of circuit timing analysis, automatic layout using timing analysis results, and report generation documenting circuit performance. Properly applied, timing-driven layout can produce, in a single design pass, ICs that satisfy difficult circuit timing specifications. (2 refs).

Descriptors[cellular-arrays](#); [circuit-layout-CAD](#); [digital-integrated-circuits](#).**Keywords**

cell based ICs; semicustom ICs; circuit timing requirements; layout optimization; timing driven layout

process; report generation documenting.

Classification codes

B1130B (Computer-aided circuit analysis and design).
B1265 (Digital electronics).
C5210B (Computer-aided logic design).
C7410D (Electronic engineering).

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4421850, B9307-6140-135, C9307-1260-117; 930603.

TitleOn model selection by **quasi-Bayesian** predictive densities.**Author(s)**[Djuric-P-M](#); [Doroslovacki-M](#).**Author affiliation**

Dept of Electr Eng, State Univ of New York, Stony Brook, NY, USA.

Source1992 IEEE International Symposium on **Circuits** and Systems (Cat. No.92CH3139-3), San Diego, CA, USA, 10-13 May 1992, p.2372-5 vol.5.

Sponsors: IEEE.

Published: IEEE, New York, NY, USA, 1992, 6 vol. 3028 pp.

ISSN

ISBN: 0-7803-0593-0, CCCC: 0 7803 0593 0/92/ (\$3.00).

Publication year

1992.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

T Theoretical or Mathematical.

Abstract

M. Aitkin (Journal of the Royal Statistical Society B, vol. 53, p.111-42, 1991) has proposed an unorthodox **Bayesian** procedure for model selection based on **quasi-Bayesian** predictive densities. The idea is to use the data twice, once to obtain a prior density for the parameters, and the second time to analyze the data using the so obtained prior. Aitkin's approach is discussed and compared with alternatives that do not violate the **Bayesian** paradigm. As a main alternative the authors consider the **Bayesian** predictive densities according to models and data. The important example of linear models is examined. **Monte Carlo** simulation results are provided that support the analysis. It is shown that model selections by **quasi-Bayesian** predictive densities yield poor results, particularly when the competing models are hierarchical. (12 refs).

Descriptors[Bayes-methods](#); [filtering-and-prediction-theory](#); [Monte-Carlo-methods](#); [signal-processing](#).

Keywords

hierarchical models; model selection; quasi **Bayesian** predictive densities; linear models; **Monte Carlo** simulation; competing models.

Classification codes

B6140 (Signal processing and detection).
B0240G (**Monte Carlo** methods).
C1260 (Information theory).
C1140G (**Monte Carlo** methods).

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4998265, B9508-6140-239, C9508-1260-205; 950713.

Title

A **Bayesian** procedure for the detection of damped signals.

Author(s)

[Djuric-P-M](#); [Bishop-W-B](#); [Johnston-D-E](#).

Author affiliation

Dept of Electr Eng, State Univ of New York, Stony Brook, NY, USA.

Source

Proceedings of IEEE International Symposium on **Circuits** and Systems - ISCAS '94, vol.2, London, UK, 30 May-2 June 1994.
In: p.401-4 vol.2, 1994.

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Abstract

Multiple hypotheses testing arises in many signal processing applications. It can be viewed as a model selection problem, and as such, is commonly resolved by invoking the popular MDL or AIC rules. These rules are very often inappropriately applied however, particularly when the signal models violate the underlying conditions on which the rules are based. The tools of **Bayesian** inference provide a mechanism for the specification of more accurate criteria for model selection. Through appropriate approximations of the prior predictive densities, one can develop rules similar in form to the AIC and MDL, but with a more complete penalty term. The derived rules are approximations of the maximum a posteriori criterion (MAP), which for a uniform cost function is known to be optimal. We present a general solution to the problem followed by a consideration of the special case of damped signals in white Gaussian noise. In particular, we investigate models whose signal components are comprised of damped sinusoids. **Monte Carlo** simulations are performed, the results of which indicate a marked improvement over both, the AIC and MDL. (8 refs).

Descriptors

Bayes-methods; Gaussian-noise; maximum-likelihood-detection; Monte- Carlo-methods; white-noise.

Keywords

Bayesian procedure; damped signals; multiple hypotheses testing; signal processing applications; model selection problem; **Bayesian** inference; prior predictive densities; penalty term; maximum a posteriori criterion; uniform cost function; white Gaussian noise; damped sinusoids; **Monte Carlo** simulations.

Classification codes

B6140 (Signal processing and detection).
B0240G (**Monte Carlo** methods).
B6110 (Information theory).
C1260 (Information theory).
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


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


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


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